710101-1170

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Attorney Docket Number

DESIGN PATENT APPLICATION (37 CFR 1.63)			First Named Inventor Polk, et al.			
			COMPLETE IF KNOWN			
	7		on Number			
Declaration Submitted OR	Declaration	Filing Dat	te c	September 22	,2003	
Submitted OR with Initial	Submitted afte		t Unit			
Filing	Filing (surchard (37 CFR 1.16)	e))				
	required)	Examiner	Name			
As a below named inventor, I he	rehy declare that:					
My residence, mailing address, an	•	stated below next to	my name.			
I believe I am the original and first invent entitled:			•	which a patent is so	ought on the	
invent critica.	· · · · · · · · · · · · · · · · · · ·					
SYSTEM AND METHOD FOR INTERLEAVING FORWARD ERROR CORRECTION CODE WORDS ACROSS MULITPLE COMMUNICATION CONNECTIONS						
		itle of the Invention)				
	(7)	de oi die nivendon)				
the specification of which						
x is attached hereto OR						
was filed on (MM/DD/YYYY)	was filed on (MM/DD/YYYY) as United States Application Number or PCT International					
Application Number	and wa	as amended on (MM/D	D/YYYY)		(if applicable).	
I hereby state that I have reviewed and amendment specifically referred to abo	understand the conter	nts of the above identif	fied specification	, including the claims,	as amended by any	
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.						
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.						
Prior Foreign Application		oreign Filing Date				
Number(s)	- Country	(MM/DD/YYYY)	Priority Not Claimed	YES	opy Attached? NO	
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:						

**DECLARATION FOR UTILITY OR** 

**DESIGN** 

[Page 1 of 3]
Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office. Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents. Washington, DC 20231.

PTO/SB/01 (10-01)

Approved for use through 10/31/2002. OMB 0651-0032

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## **DECLARATION - Utility or Design Patent Application**

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Name							
Address				<u></u>			
Address	<u>-</u>						
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I hereby declare that all statements are made herein believed to be true; and further that these stateme punishable by fine or imprisonment, or both, under application or any patent issued thereon.	nts were mad	e with th	e knowle	dge that willful	false statem	ents and the like	e so made are
NAME OF SOLE OR FIRST INVENTOR:			A pet	ition has beer	n filed for th	is unsigned inv	entor
Given Name Charles E., Jr. (first and middle [if any])			Family or Surn		Polk		
Inventor's Signature Maille E. Po	ek, J	۷,				0/18/	03
Residence: City Athens	State	AL		Country	US	Citizenship	US
Mailing Address 612 Box Street							
Mailing Address 612 Box Street							
City Athens	State	AL		Zip 356	511	Country	US
NAME OF SECOND INVENTOR:			Apet	ition has bee	n filed for th	is unsigned inv	rentor
Given Name Clint S. (first and middle [if any])			Family I	Name	Coleman		
Inventor's Clin-5Co lem	au					Date 9/1	3/03
Residence: City Huntsville	State	AL		Country	US	Citizenship	US
Mailing Address 5706 Macon Drive							
Mailing Address 5706 Macon Drive							
City Huntsville	State	AL		Zip 35	802	Country	US
Additional inventors are being named on the	sup	olementa	l Additiona	I Inventor(s) she	eet(s) PTO/SB	/02A attached he	reto.

## **DECLARATION - Utility or Design Patent Application**

NAME OF THIRD INVENTOR:			Apet	ition has	been filed for th	is unsigned inv	entor
Given Name Robert A. (first and middle [if any])			Family or Surn	Name	Barrett		
Inventor's My Manuel Signature	H					9/18/0 Date	3
Residence: City Madison	State	AL		Country	, US	Citizenship	US
Mailing Address 120 Jackson Avenue							
Mailing Address 120 Jackson Avenue							
City Madison	State	AL		Zip	35758	Country	US
NAME OF FOURTH INVENTOR:			Apet	ition has	been filed for th	is unsigned inv	entor
Given Name (first and middle [if any])			Family I				
Inventor's Signature						Date	
Residence: City	State			Country	,	Citizenship	
Mailing Address							
Mailing Address							
City	State			Zip		Country	
Additional inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.							

[Page 3 of 3]

Please type a plus sign (+	) inside this box→ +	Approve	PTO/SB/81 (02-01) ed for use through 10/31/2002. OMB 0651-0035		
Under the Panerwork Reduction	Pa	tent and Tradema	IN Office: U.S. DEPARTMENT OF COMMERCE		
Office the spelwork Neduction	Application Number	to a collection of info	rmation unless it contains a valid OMB control number.		
POWER OF	Filing Date				
ATTORNEY OR	First Named Inventor		September 30,3003 Polk, et al.		
AUTHORIZATION C	Title   System and Method for I	nterleaving Forv	vard Error Correction Code Words		
AGENT	Across Multiple Commun	ication Connect	tions		
AGENT	Group Art Unit				
1	Examiner Name				
I hereby appoint:	Attorney Docket Number		710101.1170		
Thereby appoint.					
Practitioners at Custo	mer Number				
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as my/our attorney(s)	or agent(s) to prosecute the application	identified abov	re, and to transact all		
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I am the:					
Applicant/Ir	nventor.				
X Assignee o	f record of the entire interest. See 37 0	CFR 3 71			
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).					
	SIGNATURE of Applicant or		ecord		
Name Kevin W. Schneider, Chief Technology Officer, ADTRAN, Inc.					
Signature Z. W. L. L.					
Date 18-Sep-03.					
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple					
	forms if more than one signature is required, see below*.				

Please type a plus sign (+) inside this box→ +

\*Total of

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner of Patents, Washington, DC 20231.

forms are submitted.

PTO/SB/96 (08-00)

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	STATEMEN	1 UNDER 37 CFR 3.73(b)
Applican	t/Patent Owner:. Polk, et al.	
Applicati	on No./Patent No.:	Filed/Issue Date:
Entitled:	System and Method for Interleaving Forwa Connections	ard Error Correction Code Words Across Multiple Communication
	ADTRAN, Inc.	a Corporation
	(Name of Assignee)	(19pe of Assignee, e.g., corporation, partnernsip, university, government agency, etc.)
states th	at it is:	
1. [X]	the assignee of the entire right, title, and into	erest; or
2. [ ]	an assignee of less than the entire right, title The extent (by, percentage) of its ownership	
n the pa	tent application/patent identified above by vi	rtue of either:
	An assignment from the inventor(s) of the precorded in the United States Patent and Trawhich a copy thereof is attached.	atent application/patent identified above. The assignment was ademark Office at Reel, Frame, or for
OR	<i>'</i> }	
B. [ ] A	A chain of title from the inventor(s), of the pat shown below:	tent application/patent identified above, to the current assignee as
	1. From:	To:
	The document was recorded in the United Reel, Frame	d States Patent and Trademark Office at, or for which a copy thereof is attached.
	1. From:	To:
	The document was recorded in the United	d States Patent and Trademark Office at
	Reel, Frame	, or for which a copy thereof is attached.
	1. From:	To:
	The document was recorded in the United Reel, Frame	d States Patent and Trademark Office at, or for which a copy thereof is attached.
	[ ] Additional documents I the chain of ittle	are listed on a supplemental sheet.
[NC sub		e chain of title are attached. Inment document or a true copy of the original document) must be e with 37 CFR Part 3, if the assignment is to be recorded in the
The unde	ersigned (whose title is supplied below) is au	athorized to act on behalf of the assignee.
	18-Sep-03	Kevin Schneider
	Date	Typed of printed name
		Signature
		Chief Technology Officer, ADTRAN, Inc.
_		Title

Docket No. 710101-1170 Page 1 of 5 (Patent Assignment)

## ASSIGNMENT OF UTILITY PATENT APPLICATION

WHEREAS, the following parties:

Name

5802
5758

**Address** 

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

## SYSTEM AND METHOD FOR INTERLEAVING FORWARD ERROR CORRECTION CODE WORDS ACROSS MULTIPLE COMMUNICATION CONNECTIONS,

which was:		
	executed on even date herewith,	
$\boxtimes$	filed with the United States Patent and Trademark Office	(USPTO) on
	, and assigned Serial No.	, and
	further described in U.S. Provisional application entitled	, filed with the
	USPTO on , and assigned Serial No	

WHEREAS, ADTRAN, Inc., having a place of business at 901 Explorer Blvd, Huntsville, Alabama, 35806, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and

Docket No. 710101-1170 Page 2 of 5 (Patent Assignment)

transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

Docket No. 710101-1170 Page 3 of 5 (Patent Assignment)

	Charles E. Polk Jr.
0/1/2	Charles E. Polk, Jr
Date: 9/18/03	
United States of America	
State of Alabama	
County of Madison	
On this 18 day of September  E. Polk, Jr to me known to be the individual describ instrument, or acknowledged execution of the same.	, 20 o.3, before me personally came Charles ed above and who executed the foregoing
	Marcha J. Sow Notary Public
	My Commission Expires (Date)

Docket No. 710101-1170 Page 4 of 5 (Patent Assignment)

	Clinit S. Loliman
	Clint S. Coleman
Date: 4/18/03	
United States of America	
State of Alabama	
County of Madison	
On this <u>I</u> day of <u>September</u> Coleman to me known to be the individual describe instrument, or acknowledged execution of the same	
	Marka J. Bose Notary Public
	Apr. L 2, 2003 My Commission Expires (Date)

Docket No. 710101-1170 Page 5 of 5 (Patent Assignment)

	Robert A. Garate
	Robert A. Barrett
Date:	
United States of America	
State of Alabama	
County of Madison	
On this 18 day of September  A. Barrett to me known to be the individual describe instrument, or acknowledged execution of the same.	, 20 0,3, before me personally came Robert ed above and who executed the foregoing
	Notary Public
	My Commission Expires (Date)